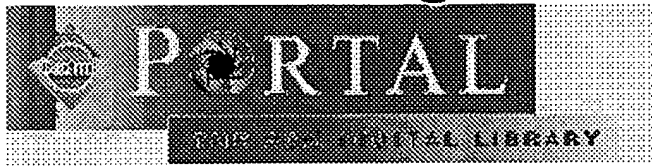


L Number	Hits	Search Text	DB	Time stamp
6	5	(network adj manag\$5) and event adj notif\$7 and event adj pars\$3 and event adj correlat\$3	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2004/03/24 10:30
7	12	((719/318).CCLS.) and (event adj correlation)	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2004/03/24 10:31
5	47	(event adj correlation).ab.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2004/03/24 10:48
8	0	network adj mediation and (event or alarm or fault) adj (correlat\$3 or notification or notif\$4) and (pars\$3 with (event or message)) and network adj manag\$8	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2004/03/24 10:52
9	1	network adj mediation adj service	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2004/03/24 10:52
10	113	(event or alarm or fault) adj (correlat\$3 or notification or notif\$4) and (pars\$3 with (event or message)) and network adj manag\$8	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2004/03/24 10:52
11	106	(event or alarm or fault) adj (correlat\$3 or notification or notif\$4) and (pars\$3 with (event or message)) and network adj manag\$8 and (network with connect\$3)	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2004/03/24 10:53
12	4	("5987247"   "6098047"   "6332130"   "6393386").PN.	USPAT	2004/03/24 11:33
13	3	6446136.URPN.	USPAT	2004/03/24 11:41
14	16	("5063523"   "5165018"   "5459717"   "5528516"   "5661668"   "5809238"   "5870605"   "5872931"   "5881315"   "5974417"   "6021443"   "6108700"   "6148338"   "6216132"   "6272537"   "6289384").PN.	USPAT	2004/03/24 11:41
15	23	5761502.URPN.	USPAT	2004/03/24 12:06

L Number	Hits	Search Text	DB	Time stamp
1	2	("5336570").PN.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 12:42
2	2	("5336370").PN.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 12:43
3	1	grace same (event or alarm) near correlat\$3	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 12:46
4	2	("5748098").PN.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 12:47
6	256	(709/318).CCLS.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 12:47
7	11	((709/318).CCLS.) and (event adj correlation)	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 12:54
8	34	(event adj correlation).ab.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 12:55
9	115	((event or alarm) adj correlat\$3).ab.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:09
10	15	((("5063523") or ("5193152") or ("5257371") or ("5276880") or ("5339421") or ("5388189") or ("5488569") or ("5495470") or ("5715394") or ("5751914") or ("5761502") or ("5805808") or ("5832228") or ("5925108") or ("5953404")).PN.	USPAT	2003/02/03 13:39
11	5	(network adj manag\$5) and event adj notif\$7 and event adj pars\$3 and event adj correlat\$3	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:19
12	5	event adj notif\$7 and event adj pars\$3 and event adj correlat\$3	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:19
13	8	event adj pars\$3 and event adj correlat\$3	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:22
15	224	corba same event	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:23

17	15	corba same event adj notification	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:25
18	49	(correlat\$3 with network with event).ab.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:30
20	201	(709/316).CCLS.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:30
21	256	(709/318).CCLS.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:30
22	10	((709/316).CCLS.) and ((709/318).CCLS.)	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:31
19	77	(distribut\$3 with event with manag\$5).ab.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:37
23	2	((distribut\$3 with event with manag\$5).ab.) and (pars\$3 near event)	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:37
24	7	((("5063523") or ("5193152") or ("5257371") or ("5276880") or ("5339421") or ("5388189") or ("5488569") or ("5495470") or ("5715394") or ("5751914") or ("5761502") or ("5805808") or ("5832228") or ("5925108") or ("5953404")).PN.) and event same pars\$3	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 13:40
25	1	((("5063523") or ("5193152") or ("5257371") or ("5276880") or ("5339421") or ("5388189") or ("5488569") or ("5495470") or ("5715394") or ("5751914") or ("5761502") or ("5805808") or ("5832228") or ("5925108") or ("5953404")).PN.) and event same pars\$3 same correlat\$3	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 14:29
26	13	5751914.URPN.	USPAT	2003/02/03 13:40
27	7	pars\$3 with raw with event	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 14:29
28	1867	(709/224).CCLS.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 15:34
29	31	((709/224).CCLS.) and (event adj correlat\$3)	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 15:43

30	4	((("5948055") or ("5787252")).PN.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 15:59
31	5	(real adj time same event adj correlat\$3).ab.	USPAT; US-PGPUB; EPO; DERWENT; IBM_TDB	2003/02/03 15:59



[> home](#) [> about](#) [> feedback](#) [> login](#)

US Patent & Trademark Office

## Search Results

Search Results for: **[event correlation]**  
Found **28** of **105,778** searched.

## Search within Results



[> Advanced Search](#)

[> Search Help/Tips](#)

Sort by: **Title** **Publication** **Publication Date** **Score** Binder

Results 1 - 20 of 28 short listing

[Prev Page](#) **1** **2** [Next Page](#)

- 1** Coding-based schemes for fault identification in communication networks 93%

Chi-Chun Lo , Shing-Hong Chen , Bon-Yeh Lin  
**International Journal of Network Management** May 2000  
Volume 10 Issue 3  
This paper proposes two event correlation schemes for fault identification in communication networks. The causality graph model is used to describe the cause-and-effect relationships between network events. Copyright © 2000 John Wiley & Sons, Ltd.
- 2** Ecxpert: exploiting event correlation in telecommunications 92%

Yossi Nygate  
**ACM SIGAPP Applied Computing Review** September 1994  
Volume 2 Issue 2  
Today's competitive market place has forced the telecommunications industry to improve their service and reliability. One step that telecommunications companies have taken to reduce network failures is the installation of operations centers to collect data from network elements. These centers are staffed by network managers who monitor network activity by correlating alarms across various operational disciplines (switch, facility, traffic) and relating them to a common cause. Accurate analysis i ...
- 3** Network expert diagnostic system for real-time control 88%

Terry L. Janssen  
**Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1** June 1989  
Data communications networks are controlled by network management systems that are responsible for performance and fault management. This paper presents an expert system capable of performing fault and performance management through different levels of autonomous control. A blackboard architecture design provides for processing of multiple lines of machine reasoning and planning: the set of all unresolved events is used to generate hypotheses of network state through event correlation and ...
- 4** The design and performance of a real-time CORBA event service 85%

Timothy H. Harrison , David L. Levine , Douglas C. Schmidt



**ACM SIGPLAN Notices , Proceedings of the 1997 ACM SIGPLAN conference on Object-oriented programming systems, languages and applications** October 1997  
Volume 32 Issue 10

**5** Real-time protocol analysis for detecting link-state routing protocol attacks 82%



Ho-Yen Chang , S. Felix Wu , Y. Frank Jou

**ACM Transactions on Information and System Security (TISSEC)** February 2001  
Volume 4 Issue 1

A real-time knowledge-based network intrusion-detection model for a link-state routing protocol is presented for the OSPF protocol. This model includes three layers: a data process layer to parse packets and dispatch data; and event abstractor to abstract predefined real-time events for the link-state routing protocol; and an extended timed finite state machine to express the real-time behavior of the protocol engine and to ...

**6** Monitoring business processes through event correlation based on dependency model 82%

Asaf Adii , David Botzer , Opher Etzion , Tali Yatzkar-Haham

**ACM SIGMOD Record , Proceedings of the 2001 ACM SIGMOD international conference on Management of data** May 2001  
Volume 30 Issue 2

Events are at the core of reactive and proactive applications, which have become popular in many domains.

This demo shows the monitoring of incoming events as a means to detect possible problems in the course of business processes using a dependency model.

Contemporary modeling tools lack the capability to express the event semantics and relationships to other entities. This capability is useful when the events are based on a dependency model among business processes, applicat ...

**7** From service configuration through performance monitoring to fault detection: 82%



implementing an integrated and automated network maintenance platform for enhancing wide area transaction access services

Symeon Papavassiliou , Mike Pace

**International Journal of Network Management** September 2000  
Volume 10 Issue 5

The design and implementation of integrated and automated network-service management platforms that can seamlessly configure services, monitor service-network performance, and detect network faults are of great importance and interest to the service and network providers. In this paper we describe a set of integrated Operations Support Systems &par;OSS&par; that implement proactive network maintenance process in Wide Area Transaction Access Services. Copyright © 2000 John ...

**8** High-level constructs in the READY event notification system 82%



Robert E. Gruber , Balachander Krishnamurthy , Euthimios Panagos

**Proceedings of the 8th ACM SIGOPS European workshop on Support for composing distributed applications** September 1998

**9** Applying active database models for simulation 82%



A. Cornelio , Shamkant B. Navathe

**Proceedings of the 25th conference on Winter simulation** December 1993

**10** Special section on data mining for intrusion detection and threat analysis:**4** Data mining-based intrusion detectors: an overview of the columbia IDS project

Salvatore J. Stolfo , Wenke Lee , Philip K. Chan , Wei Fan , Eleazar Eskin

**ACM SIGMOD Record** December 2001

Volume 30 Issue 4

**11** Supporting workflow cooperation within and across organizations

80%

**4** Fabio Casati , Angela DisENZA**Proceedings of the 2000 ACM symposium on Applied computing 2000** March 2000**12** Event variables - on conditions for APL

77%

**4** Thomas J. Harris**Proceedings of seventh international conference on APL** June 1975

This paper describes the function and use of event variables for APL programs. Event variables can be used in a manner analogous to PL1 ON Conditions. Section 1 describes the background and case for event variables; section 2 presents implementation considerations; and section 3 discusses the use of events in an APL working environment.

**13** Steady-state simulation of queueing processes: survey of problems and solutions

77%

**4**

Krzysztof Pawlikowski

**ACM Computing Surveys (CSUR)** June 1990

Volume 22 Issue 2

For years computer-based stochastic simulation has been a commonly used tool in the performance evaluation of various systems. Unfortunately, the results of simulation studies quite often have little credibility, since they are presented without regard to their random nature and the need for proper statistical analysis of simulation output data. This paper discusses the main factors that can affect the accuracy of stochastic simulations designed to give insight into the steady-st ...

**14** Session C2: information visualization: Case study: interactive visualization for internet security

77%

**4**

Soon Tee Teoh , Kwan Liu Ma , S. Felix Wu , Xiaoliang Zhao

**Proceedings of the conference on Visualization '02** October 2002

Internet connectivity is defined by a set of routing protocols which let the routers that comprise the Internet backbone choose the best route for a packet to reach its destination. One way to improve the security and performance of Internet is to routinely examine the routing data. In this case study, we show how interactive visualization of Border Gateway Protocol (BGP) data helps characterize routing behavior, identify weaknesses in connectivity which could potentially cripple the Internet, a ...


**15** Session 9D: embodied agents: Object persistence for synthetic creatures

77%

**4** Damian A. Isla , Bruce M. Blumberg**Proceedings of the first international joint conference on Autonomous agents and multiagent systems: part 3** July 2002

We present methods for anticipatory behavior in simulated graphical creatures. We discuss in general terms the importance of anticipatory behavior through explicit expectation formation. We present an in-depth description of a specific type of expectation-formation, namely location-expectation, or object persistence. A new representation - the Probabilistic Occupancy Map (POM) - is presented, and it is shown how this representation can be used to maintain estimations of the positions of mobile o ...


77%

**16 XML Applications: An event-condition-action language for XML** James Bailey , Alexandra Poulouvassilis , Peter T. Wood**Proceedings of the eleventh international conference on World Wide Web** May 2002

XML repositories are now a widespread means for storing and exchanging information on the Web. As these repositories become increasingly used in dynamic applications such as e-commerce, there is a rapidly growing need for a mechanism to incorporate reactive functionality in an XML setting. Event-condition-action (ECA) rules are a technology from active databases and are a natural method for supporting such functionality. ECA rules can be used for activities such as automatically enforcing documents ...

**17 Contributed articles: Report on the workshop on research issues in data**

77%

 mining and knowledge discovery workshop (DMKD 2001)

Roberto Bayardo , Johannes E. Gehrke


**ACM SIGKDD Explorations Newsletter** July 2001

Volume 3 Issue 1


This short article summarizes the program of the Sixth Workshop on Research Issues in Data Mining and Knowledge Discovery Workshop (DMKD 2001).

**18 Pushing reactive services to XML repositories using active rules**


77%

 Angela Bonifati , Stefano Ceri , Stefano Paraboschi**Proceedings of the tenth international conference on World Wide Web** April 2001**19 A requires/provides model for computer attacks**

77%

 Steven J. Templeton , Karl Levitt**Proceedings of the 2000 workshop on New security paradigms** February 2001**20 A simple packet aggregation technique for fault detection**

77%



 Akira Kanamaru , Kohei Ohta , Nei Kato , Glenn Mansfield**International Journal of Network Management** July 2000

Volume 10 Issue 4

Packet monitoring has become a standard technique in network management and when applied to a large-scale transit network yields a high volume of packets. To overcome this problem, we discuss the behavior of packets and present a symptom-based packet aggregation technique which is useful for fault detection. Copyright © 2000 John Wiley & Sons, Ltd.

---

**Results 1 - 20 of 28**    **short listing**

   
Prev    Next  
Page 1   2   Page

---

The ACM Portal is published by the Association for Computing Machinery. Copyright © 2003 ACM, Inc.



Find: [Documents](#)[Citations](#)Searching for **event correlation and real time**.Restrict to: [Header](#) [Title](#) Order by: [Citations](#) [Hubs](#) [Usage](#) [Date](#) Try: [Amazon](#) [B&N](#) [Google \(RI\)](#) [Google \(Web\)](#) [CSB](#) [DBLP](#)

14 documents found. Order: citations weighted by year.

[The Design and Performance of a Real-time CORBA Event... - Harrison, O'Ryan.. \(1997\) \(Correct\) \(23 citations\)](#)  
 event filtering, priority, and **event correlation**. This paper describes the design and  
 The Design and Performance of a Real-time CORBA Event Service Timothy H. Harrison,  
[siesta.cs.wustl.edu/~schmidt/JSAC-98.ps.gz](http://siesta.cs.wustl.edu/~schmidt/JSAC-98.ps.gz)

One or more of the query terms is very common - only partial results have been returned. Try [Google \(RI\)](#).

[High-Level Constructs in the READY Event Notification... - Gruber, Krishnamurthy.. \(1998\) \(Correct\) \(7 citations\)](#)  
 source-based and typebased event filtering, **event correlations**, and **real-time** event dispatching. Similar  
 issues.TAO [8] is an object-oriented, **real-time** event service. One of the main contributions of  
[www.research.att.com/~thimios/papers/lew98.ps.Z](http://www.research.att.com/~thimios/papers/lew98.ps.Z)

[Implementation of Distributed Systems Management Policies: A ... - Steenekamp, Roos \(1996\) \(Correct\) \(3 citations\)](#)  
 Systems Management areas of Event Filtering, **Event Correlation**, and Problem Resolution. The higher the  
 (a delegated agent) to the elastic process. **Real-time** updating of management functionality is a very  
[www.cs.up.ac.za/techreps/ps/petra\\_vs.ps](http://www.cs.up.ac.za/techreps/ps/petra_vs.ps)

[Scalable High-Performance Event Filtering for Dynamic... - Douglas Schmidt \(1994\) \(Correct\) \(2 citations\)](#)  
 performance requirements (e.g.the automated **event correlation** in fault management subsystems)ffl  
 in large-scale network management systems, **real-time** market data analysis systems, on-line news  
[sunsite.bcc.bilkent.edu.tr/pub/languages/c++/class-libraries/ACE/ACE-documentation/HIPPARCH-94.ps.gz](http://sunsite.bcc.bilkent.edu.tr/pub/languages/c++/class-libraries/ACE/ACE-documentation/HIPPARCH-94.ps.gz)

[GEM - A Generalised Event Monitoring Language for... - Mansouri-Samani, Sloman \(1997\) \(Correct\) \(1 citation\)](#)  
 distributed systems, event reporting, **event correlation**, event filtering, composite events. Masoud  
 rule based language in which the notion of **real time** has been closely integrated and various  
[dse.doc.ic.ac.uk/dse-papers/management/GEM.ps.Z](http://dse.doc.ic.ac.uk/dse-papers/management/GEM.ps.Z)

[Automatically Acquiring Rules for Event Correlation From Event... - Tim Oates \(1997\) \(Correct\) \(1 citation\)](#)  
 Automatically Acquiring Rules for **Event Correlation** From Event Logs Tim Oates, David Jensen,  
 of those dependencies with respect to **event correlation**. Event logs were generated by a modified version  
 against new events as they are generated in **real time**. Because strong dependencies indicate that  
[www-eksl.cs.umass.edu/papers/oates97-14.ps](http://www-eksl.cs.umass.edu/papers/oates97-14.ps)

[Discovering Rules for Clustering and Predicting Asynchronous... - Oates, Jensen, Cohen \(Correct\) \(3 citations\)](#)  
 (medd)a novel algorithm for acquiring **event correlation** rules from historical logs of asynchronous  
 events. Given a new stream of events generated in **real time**, the rules enable two important activities:  
[www-eksl.cs.umass.edu/papers/oates-aaai98-time.ps](http://www-eksl.cs.umass.edu/papers/oates-aaai98-time.ps)

[High Speed Network First-Stage Alarm Correlator - Sterritt, Shapcott, Adamson.. \(2000\) \(Correct\)](#)  
 Intelligent Systems, Expert Systems, **Event Correlation**, Telecommunications. 1 INTRODUCTION  
 process and subsequent problems with usage in a **real-time** fault management system. To assist in reducing  
[www.infj.ulst.ac.uk/~roy/papers/2000-10-isc-fac.pdf](http://www.infj.ulst.ac.uk/~roy/papers/2000-10-isc-fac.pdf)

[Using Constraint Technology to Diagnose... - Sabin, Russell.. \(2001\) \(Correct\)](#)  
 that can then be used in **real-time** to perform **event correlation** or other management tasks. In this paper we  
 the enterprise model that can then be used in **real-time** to perform **event correlation** or other  
[www.cs.unh.edu/~rdr/ict2001.ps](http://www.cs.unh.edu/~rdr/ict2001.ps)

[Real Time Event Based Analysis of Complex Systems - Perrochon \(Correct\)](#)  
 analysis, verification, event processing, **event correlation**, agents. 1 INTRODUCTION Complex Event  
 1 Real Time Event Based Analysis of Complex Systems Louis  
[www.perrochon.com/archiv/pubs/98informatik/98informatik.ps.gz](http://www.perrochon.com/archiv/pubs/98informatik/98informatik.ps.gz)

[Preprocessor Algorithm for Network Management Codebook - Minaxi Gupta \(Correct\)](#)  
 Out of the above mentioned available **event correlation** and management approaches, we have selected

Abstract As the size of networks increases, **real-time** fault management becomes difficult due to the  
[www.cc.gatech.edu/~minaxi/pubs/userix99.ps](http://www.cc.gatech.edu/~minaxi/pubs/userix99.ps)

An Event Service Framework for Distributed Real-Time Systems - Guangtian Liu (1997) (Correct)  
timely delivery of events and more complex **event correlation** are desirable. In this work, we identify a  
An Event Service Framework for Distributed **Real-Time** Systems Guangtian Liu and Aloysius K. Mok  
[www.cs.utexas.edu/users/liugt/publications/wmdrt97.ps.gz](http://www.cs.utexas.edu/users/liugt/publications/wmdrt97.ps.gz)

User to Network QoS Parameter Transformation in Networked.. - Daniel Moss'eand (Correct)  
ms non overlay 500 ms audio amination **event correlation**(e.g. dancing) 80 ms audio tightly  
accompanying the "internet" rush, along with **real-time** systems, networks, tools, and methodologies.  
[www.cs.unc.edu/~jeffay/meetings/mm-wrkshp96/mosse.ps.gz](http://www.cs.unc.edu/~jeffay/meetings/mm-wrkshp96/mosse.ps.gz)

Try your query at: [Amazon](#) [Barnes & Noble](#) [Google \(RI\)](#) [Google \(Web\)](#) [CSB](#) [DBLP](#)

CiteSeer - [citeseer.org](http://citeseer.org) - [Terms of Service](#) - [Privacy Policy](#) - Copyright © 1997-2002 [NEC Research Institute](#)